

## AMERICAN WIRE GAUGE SIZES STANDARD SOLID AND STRANDED CONDUCTORS

American size awg or mcm	Cross-sectional area	Stranding No. wires/ size wire awg or inches	Nominal diameter of conductor	Nominal weight	Resistance at 20°C DC (ohms per km)
	mm <sup>2</sup>		mm	kg/km	
AWG					
40	0.0049	1/40	0.079	0.0433	3540
39	0.0062	1/39	0.089	0.0552	2780
38	0.0081	1/38	0.102	0.0720	2130
37	0.0103	1/37	0.114	0.0912	1680
36	0.0127	1/36	0.127	0.113	1360
35	0.0159	1/35	0.142	0.141	1080
34	0.0201	1/34	0.16	0.179	857
33	0.0255	1/33	0.18	0.228	675
32	0.0324	1/32	0.203	0.289	532
31	0.0401	1/31	0.226	0.357	430
30	0.0507	1/30	0.254	0.451	340
29	0.0649	1/29	0.287	0.576	266
28	0.0806	1/28	0.32	0.716	214
27	0.102	1/27	0.361	0.908	169
26	0.128	1/26	0.404	1.14	135
25	0.162	1/25	0.455	1.44	106
24	0.205	1/24	0.511	1.82	84.2
23	0.259	1/23	0.574	2.31	66.6
22	0.324	1/22	0.643	2.89	53.2
21	0.411	1/21	0.724	3.66	41.9
20	0.519	1/20	0.813	4.61	33.2
19	0.653	1/19	0.912	5.8	26.4
18	0.823	1/18	1.02	7.32	21.0
18	0.897	7/26	1.22	8.26	21.2
17	1.04	1/17	1.15	9.24	16.6
16	1.31	1/16	1.29	11.6	13.6
16	1.31	7/.0192"	1.47	11.8	13.6
14	2.08	1/14	1.63	18.5	8.28
14	2.08	7/0.242"	1.85	18.9	8.56
12	3.31	1/12	2.05	29.5	5.21
12	3.3	7/0.305"	2.34	30.1	5.38
12	3.08	19/25	2.29	28.9	5.59
10	5.26	1/10	2.59	46.8	3.28
10	5.25	7/0.385"	2.95	47.6	3.28
10	5.27	19/0.234"	2.97	47.6	3.21
9	6.61	7/0.432"	3.3	64.0	2.69
8	8.37	1/8	3.26	74.3	2.06
8	8.38	7/0.486"	3.71	74.5	2.13
8	8.38	19/0.2095"	3.66	74.4	2.13
6	13.3	1/6	4.12	118	1.3
6	13.28	7/0.612"	4.67	121	1.34
6	13.33	19/0.372"	4.72	121	1.3
4	21.15	1/4	5.19	188	0.82
4	21.15	7/0.772"	5.89	192	0.85
4	21.19	19/0.469"	5.97	192	0.79
2	33.67	19/0.591"	7.42	305	0.56
1	42.47	19/0.664"	8.43	396	0.43
1/0	53.47	19/0.745"	9.47	485	0.36
1/0	53.49	37/0.534"	9.4	485	0.33
2/0	67.53	37/0.6"	10.67	612	0.26
3/0	87.97	37/0.673"	11.94	771	0.23
4/0	107.23	37/0.756"	13.49	972	0.16

## AMERICAN WIRE GAUGE SIZES STANDARD SOLID AND STRANDED CONDUCTORS

American size awg or mcm	Cross-sectional area	Stranding No. wires/ size wire awg or inches	Nominal diameter of conductor	Nominal weight	Resistance at 20°C DC (ohms per km)
	mm <sup>2</sup>		mm	kg/km	
MCM					
250	124	37/.0822"	14.62	1148	0.14
250	124	61/.064"	14.67	1148	0.14
300	148	37/.09"	16.0	1370	0.117
300	148	61/.0701"	16.02	1370	0.117
350	175	37/.0973"	17.3	1620	0.099
350	172	61/.0757"	17.31	1593	0.101
400	198	37/.104"	18.49	1833	0.087
400	199	61/.081"	18.52	1843	0.087
500	249	37/.1162"	20.66	2306	0.069
500	248	61/.0905"	20.69	2296	0.070
600	298	61/.0992"	22.68	2759	0.058
600	297	91/.0812"	22.69	2750	0.058
700	347	61/.1071"	24.48	3213	0.050
700	344	91/.0877"	24.50	3185	0.050
750	373	61/.1109"	25.35	3454	0.046
750	370	91/.0908"	25.37	3426	0.047
800	394	61/.1145"	26.17	3648	0.044
800	398	91/.0938"	26.21	3685	0.043
900	445	61/.1215"	27.77	4121	0.0388
900	445	91/.0994"	27.77	4121	0.0388
1000	499	61/.1280"	29.26	4621	0.037
1000	496	91/.0994"	29.28	4593	0.0349
1250	622	91/.1172"	32.75	5760	0.0278
1250	622	127/.0992"	32.76	5760	0.0278
1500	745	91/.1284"	35.87	6899	0.0232
1500	743	127/.1087"	35.89	6880	0.0233
1750	868	127/.1174"	38.77	8038	0.0199
1750	864	169/.1018"	38.79	8001	0.0200
2000	989	127/.1255"	41.44	9158	0.0175
2000	989	169/.1088"	41.45	9158	0.0175

battindustrial.sales@batt.co.uk

**NORTH EAST**  
Teesside  
Tel: 01642 678633  
Fax: 01642 674487

**SCOTLAND (SOUTH)**  
Edinburgh  
Tel: 0131 333 4400  
Fax: 0131 333 1199

**SCOTLAND (NORTH)**  
Aberdeen  
Tel: 01224 897979  
Fax: 01224 894646

**HOLLAND**  
Rotterdam  
Tel: + 31 186 622311  
Fax: + 31 186 626333

**USA**  
Houston  
Tel: +1 713 5901100  
Fax: +1 713 7830067

**GERMANY**  
Mainz  
Tel: +1 49 6131 6273874  
Fax: +1 49 6131 6273875

**AMERICAN WIRE GAUGE SIZES  
STANDARD FLEXIBLE CONDUCTORS**

American size awg or mcm	Cross-sectional area mm <sup>2</sup>	Stranding No. wires/size wire awg or inches	Nominal diameter of conductor mm	Nominal weight kg/km	Resistance at 20°C DC (ohms per km)
AWG					
32	0.051	7/40	0.254	0.31	577
30	0.057	7/38	0.305	0.52	348
28	0.089	7/36	0.381	0.82	221
27	0.111	7/35	0.455	1.04	176
27	0.131	65/44	0.455	1.05	138
26	0.141	7/34	0.483	1.29	139
26	0.127	10/36	0.483	1.15	155
26	0.154	19/38	0.533	1.44	128
24	0.227	7/32	0.610	2.05	84.2
24	0.201	16/36	0.609	1.64	96.8
24	0.241	19/36	0.635	2.20	81.7
22	0.355	7/30	0.787	3.26	54.4
22	0.382	19/34	0.813	3.50	50.8
20	0.562	7/28	0.965	5.19	33.8
20	0.507	10/30	0.914	4.67	37.4
20	0.616	19/32	1.02	5.71	31.1
20	0.523	26/34	0.94	4.88	37.1
20	0.582	42/36	0.965	4.97	36.7
18	0.810	16/30	1.17	7.45	23.4
18	0.963	19/30	1.27	8.85	20.0
18	0.824	41/34	1.19	7.08	23.2
16	1.23	19/29	1.45	11.2	15.8
16	1.32	19/.0117"	1.5	11.9	14.4
16	1.32	26/30	1.52	12.1	14.4
16	1.31	65/34	1.52	11.9	14.7
14	1.94	19/27	1.8	18.0	10.0
14	2.08	41/30	1.75	19.2	9.22
12	3.29	65/30	2.31	31.1	5.97
10	5.01	49/27	3.04	48.2	4.2
10	5.32	105/30	3.30	49.2	3.61
8	8.61	133/29	4.24	80.4	2.33
8	8.51	168/30	4.42	79	2.3
6	13.6	133/27	5.33	125	1.41
6	13.49	266/30	5.18	124	1.44
4	21.61	133/25	6.53	201	0.95
4	21.29	420/30	6.53	208	0.92
2	33.72	665/30	8.59	317	0.59
1/0	53.05	259/24	10.77	493	0.36
1/0	52.98	1045/30	10.41	498	0.39
2/0	65.89	259/.0227"	11.58	640	0.30
2/0	67.58	1330/30	12.60	640	0.30
3/0	84.42	1666/30	13.5	788	0.223
4/0	107.65	427/.0223"	15.29	1006	0.200
4/0	106.82	2107/30	15.44	1003	0.200

**AMERICAN WIRE GAUGE SIZES  
STANDARD FLEXIBLE CONDUCTORS**

American size awg or mcm	Cross-sectional area mm <sup>2</sup>	Stranding No. wires/size wire awg or inches	Nominal diameter of conductor mm	Nominal weight kg/km	Resistance at 20°C DC (ohms per km)
MCM					
250	126	2499/30	17.3	1182	0.149
300	151	2989/30	19.5	1414	0.124
350	175	3458/30	20.5	1636	0.106
400	202	3990/30	22.3	1887	0.093
450	229	4522/30	23.7	2139	0.0822
500	255	5054/30	25.1	2390	0.0735
550	276	5453/30	28.8	2581	0.0681
600	303	5985/30	28.6	2833	0.0620
650	330	6517/30	29.6	3086	0.0570
700	350	6916/30	30.7	3273	0.0537
750	384	7581/30	32.4	3590	0.0490
800	404	7980/30	33.2	3777	0.0465
900	458	9065/30	33.6	4282	0.0410
1000	511	10101/30	36.1	4778	0.0368
1100	571	2793/.0201"	38.0	5339	0.0330
1200	599	2926/.0201"	39.0	5601	0.0314
1250	626	3059/.0201"	39.7	5853	0.0300
1300	654	3192/.0201"	40.8	6115	0.0287
1400	708	3458/.0201"	42.5	6620	0.0266
1500	762	3724/.0201"	43.6	7125	0.0247
1600	817	3990/.0201"	45.6	7639	0.0230
1700	871	4256/.0201"	47.0	8144	0.0216
1750	898	4389/.0201"	47.8	8396	0.0209
1800	926	4522/.0201"	48.8	8658	0.0203
1900	980	4788/.0201"	50.2	9163	0.0192
2000	1007	4921/.0201"	50.9	9415	0.0187

[battindustrial.sales@batt.co.uk](mailto:battindustrial.sales@batt.co.uk)